C O N T E N T S

Volume 12

Number 1, July 1979

Notices 1

Concentrations of progesterone in milk as a monitor of early pregnancy diagnosis in dairy cows

Abdalla A. Zaied, C.J. Bierschwal, R.G. Elmore, R.S. Youngquist, A.J. Sharp & H.A. Garverick 3

Assay of frozen boar semen with sephadex filtration

Eric O. Fayemi, Bo G. Crabo & E.F. Graham 13

Estrogen and progesterone concentrations in bovine milk during the estrous cycle

R. Narendran, R.R. Hacker, V.G. Smith and A. Lun 19

Oestradiol-17β and progesterone in nymphomaniac cows

J. Saumande, J. Le Coustumier & C. Marais 27

Seasonal differences in plasma testosterone profiles in buffalo bulls

B.M.A.O. Perera, N. Pathiraja, M.X.J. Motha and D.A. Weerasekera 33

An equine fetal monster, *Dicephalus tetrapus dibrachius*

R.L. Asquith, and D.C. Sharp III 39

Number 2, August 1979

Notices 45

Cannulation of the equine oviduct and chemical analysis of oviduct fluid

D.L. Campbell, L.W. Douglas & J.C. Ramge 47

Restricted dietary protein in pregnant beef cows: I. The effect on length of gestation and calfhood mortality

D.G. Waldhalm, R.F. Hall, W.J. DeLong, D.P. Olson & D.O. Everson 61

Library
Ohio Agricultural Research & Development Center
Wooster, Ohio 44691

48508

Restricted dietary protein in pregnant beef cows: II. Effect on the immune response

W.J. DeLong, D.G. Waldhalm, R.F. Hall, and D.O. Everson 69

Deep freezing of cattle embryos in glass ampules or French straws

A. Massip, P. Van der Zwalmen, F. Ectors, R. De Coster, G. D'Ieteren & C. Hanzen 79

Prolactin levels in ovariectomized Brahman, Brahman x Hereford and Hereford cows following a 20 mg dose of estradiol-17β

R.C. Rhodes III, R.D. Randel and P.G. Harms 85

Successful superovulation, nonsurgical collection and transfer of embryos from Brahman cows

S.M. Halley, R.C. Rhodes III, L.D. McKellar and R.D. Randel 97

Reproductive hormones associated with the ovarian cyst response to GnRH

D.J. Kesler, H.A. Garverick, R.G. Elmore, R.S. Youngquist & C.J. Bierschwal 109

Book review 115

Number 3, September 1979

Notices 117

Multiple linear and nonlinear regression analyses of factors causing calving difficulty

R.E. Short, R.A. Bellows, R.B. Staigmiller & J.B. Carr 121

Estrus synchronization and fertility in gilts using a synthetic progestagen (allyl trenbolone) inseminated with fresh stored or frozen semen

P.J. O'Reilly, Rosemary McCormack, K. O'Mahony & C. Murphy 131

The active immunization of the cyclic ewe against an estrone protein conjugate

N.C. Rawlings, S.W. Kennedy & D.M. Henricks 139

Influence of stage of oestrous cycle on time of oestrus following cloprostenol treatment in the bovine

Peter S. Jackson, Carl T. Johnson, Barry J. Furr & John F. Beattie 153

Temporal relationships among peripheral blood concentrations of corticosteroids, luteinizing hormone and testosterone in bulls

T.H.Welsh, R.D. Randel & B.H. Johnson 169

Number 4, October 1979

Notices 181

Estrus and pregnancy in beef heifers following use of the Syncro-mate-B treatment (SMB)

M.F. Smith, W.C. Burrell, J. Broadway & J.N. Wiltbank 183

Estrus synchronization and superovulation with a subcutaneous gestagen implant (Norgestomet, Intervet) in suckler cows and heifers

W. Holtz, H.H. Herrmann & H.J. Voss 197

Use of PMSG in the prevention of seasonal post-weaning anestrus in sows

J.P. Hurtgen & A.D. Leman 207

Induction of puberty and subsequent reproductive performance

Peter J. Burfening 215

A comparison of three methods of assessing sex-drive in yearling beef bulls and relationships with testosterone and LH levels

P.J. Chenoweth, J.S. Brinks & T.M. Nett 223

Number 5, November 1979

Notices 235

Relationship of estradiol and prostaglandins in sperm retention in the mated rabbit

Caird E. Rexroad, Jr., B.S. Cooper & H.W. Hawk 237

Variables associated with peripartum traits in dairy cows. V. Hormonal profiles associated with retained fetal membranes

B.P. Chew, R.E. Erb, Claudie N. Zamet, V.F. Colenbrander, P.V. Malven & M. Frances D'Amico 245

Control of estrus in *Bos indicus* and *Bos taurus* heifers with prostaglandin F_2 alpha

O. Adeyemo, U.U. Akpokodje & P.I. Odili 255

Studies on obtaining meiotic chromosomes for analysis in the bull. I. Testicular biopsy

M.D. Eaglesome, W.C.D. Hare & E.L. Singh 263

Studies on obtaining meiotic chromosomes for analysis in the bull. II. Direct and culture methods

W.C.D. Hare, E.L. Singh & M.D. Eaglesome 271

Ram-induced ovulation in seasonally anovular merino ewes: Effect of oestradiol on the frequency of ovulation, oestrus and short cycles

G.B. Martin 283

Peripheral plasma testosterone concentration and sexual behavior in young prenatally stressed boars

H.G. Kattesh, E.T. Kornegay, F.C. Gwazdauskas, J.W. Knight & H.R. Thomas 289

Book review: "Animal reproduction - principles and practices"

Robert H. BonDurant 307

Number 6, December 1979

Notices 309

Editorial 311

Effect of short term passive immunization of the cyclic ewe against estradiol-17β

N.C. Rawlings, S.W. Kennedy & D.M. Henricks 313

The relationship of circulating plasma progesterone levels and rectal temperatures in gilts

R.G. Elmore & H.A. Garverick 319

A solid-phase radioimmunoassay for progesterone and its application to pregnancy diagnosis in the cow

E.W. Gowan & R.J. Etches 327

Antitesticular activity of Dl-6-(N-2-Pipecolinomethyl)-5 -Hydroxy-Indane Maleate (PMHI) in coyotes (*Canis latrans*)

John N. Stellflug, Norman L. Gates & Charles W. Leathers 345

Experimentally induced mycoplasmal infection in the genital tract of the female dog

A. Holzmann, G. Laber & H. Walzl 355

Effect of time and temperature on bovine serum and plasma progesterone concentration

F. Vahdat, J.P. Hurtgen, H.L. Whitmore, S.D. Johnston & C.L. Ketelsen 371

Sex behavior and hormone responses in ewes administered testosterone propionate

G.B. Marit, N.S. Scheffrahn, T.R. Troxel & D.J. Kesler 375

Postpartum fertility in beef cattle producing twins

M.B. Wheeler, J.W. Scheer, G.B. Anderson & R.H. BonDurant 383

Effect of cannulae in the ampulla of the oviduct and in the tubo-uterine junction on reproductive phenomena in sheep

P.J.H.Ball, M.E. Simkin & R.H. Foote 389

Embryo transfer bibliography I

S.M. Seidel & G.E. Seidel, Jr. 399

AUTHOR INDEX 411

SUBJECT INDEX 413

34 87 82 0SU3 I 603 XL 2941